TeleNav v2.2 for GPS-enabled Java phones

Auto GPS Navigation for Nextel Java Phones

Motorola i730 Java phone with integral GPS receiver

User's Guide

© TELENAV 2003-5

©2003 TeleNav, Inc. All rights reserved. TeleNav is a trademark of TeleNav. All other trademarks or registered trademarks are acknowledged as the exclusive property of their respective owners.

All rights reserved. No part of this manual may be reproduced, transmitted, copied, or stored in any storage medium, for any purpose, without prior written consent from TeleNav, Inc. TeleNav, Inc. hereby grants the right to download one copy of this manual onto a hard drive for personal use. This manual is copyrighted and contains proprietary information that is subject to change without notice. For more information visit www.telenav.com.

Table of Contents

1. Welcome 5
2. Safety and Legal Notices 6
3. Getting Started with TeleNav 6
4. Installing TeleNav on Your Phone 7
5. GPS Privacy 9
6. Using TeleNav 10

Launching the Application 10

Logging In 10

Main TeleNav Menu 13

GPS Basic (free services) 13

Compass 13

View waypoint 15

View track 16

Record Track/End Track 16

GPS Plus 17

Maps 17

Locator 18

Driving Directions 21

TeleNav 22

GPS Navigation 22

Yellow Pages 23

Preferences 27

Address Entry 27

Keypad address entry 28

Using an Airport as an address 31

Using Yellow Pages to find an address 31

Using a Waypoint as an address 32
Activity Messages 32
Error Messages 32
Error message: GPS Access Restricted 32
Error message: GPS Signal Weak 32
Error message: Low battery (i88s and i58sr only) 33
GPS Working Correctly 33
Guidance Instructions 35
Navigation guidance 35
Non-GPS mode or Driving Directions 36
Miss a turn? 36
7. Error Conditions 36
Unable to reach server 36
TeleNav not available 36
8. Exiting TeleNav 37
9. The TeleNav Web Site 37
Personal Information 37
Preplanning 37
Customer Service 37
10. FAQ's 37
11. Customer Support 40
12. TeleNav Services Warranty 41

1. Welcome

TeleNav 2.2 exploits the integration of GPS position determination technology, the Java programming environment, and access to Nextel's packet data network that are all built-in to the Motorola i730 mobile phone. TeleNav 2.2 offers basic free services, and two levels of enhanced paid subscription services.

The basic GPS services include:

1. A compass-like indicator presenting your direction of travel, location, and speed.

2. A display of the number of satellites in view that the GPS receiver is tracking.

3. The ability to mark your current location as a waypoint that you can label.

4. The ability to start and stop recording a track list of your location as you move around.

5. A viewer that allows you to see your current location relative to a selected waypoint, or a track you have created.

None of these basic GPS services require you to have Nextel packet data service. They all operate solely within the mobile phone itself.

The lower tier of paid GPS services include:

1. Maps of the area around your current location; a marked waypoint; or an address you enter manually, or have previously entered. You can pan (adjust left/right or up/down) the map, or zoom in or out.

2. A suite of Locator functions that allow you to see your current location as an approximate street address rather than latitude and longitude; allow you to send your location to someone else, or receive their location; and allow you to send your location to a the TeleNav website so someone with the access control PIN you provide can find you.

3. Driving directions from an origin address to a destination address that you specify.

TeleNav's servers support each of these services via the Nextel packet data network.

The upper tier of paid GPS services include:

1. GPS navigation than punctually guides you turn-by-turn to any address in the Continental US. If you miss a turn or get off-track, it will calculate a new route for you. You can enter one or more destination addresses by calling an automatic voice recognition system, entering them on the TeleNav website, or keying them directly into the phone.

2. A Yellow Pages look up feature that allows you to find businesses or points of interest near your current location, around a waypoint, around an entered address, or around an airport.

TeleNav's servers support each of these services via the Nextel packet data network.

2. Safety and Legal Notices

Please read this section carefully before using TeleNav

TeleNav will not accept any responsibility whatsoever for accidents resulting from failure to observe common sense precautions. Your personal judgment, traffic regulations, and common sense must always take precedence over any driving direction produced by TeleNav.

WARNING: Keep your eyes on the road.

It is your responsibility as the vehicle operator to keep your eyes on the road and be an alert driver at all times, ESPECIALLY when the vehicle is moving. The vehicle operator should not be distracted by the application displays, audible cues, or manually interacting with the controls. When you need to enter data on your phone using the keypad or study the display, please do so while the vehicle is parked, not while in motion. Should your ability to drive responsibly be decreased, please turn off the device.

WARNING: Install the equipment safely.

If you are using a phone mounting kit, make sure that it does not obscure your vision. You may wish to charge the phone while using TeleNav. If so, make sure the charging cable does not interfere with any of the vehicle controls.

WARNING: Drive safely and use common sense.

The vehicle operator's personal judgment, traffic regulations, and common sense must always take precedence over the instructions provided by TeleNav.

It is your responsibility as the vehicle operator to drive safely, observe all traffic rules and above all use your own personal judgment while driving. If you feel that a route suggested by the navigation software instructs you to perform an unsafe or illegal maneuver, places you in an unsafe situation, or routes you into an area which you consider unsafe, do not follow the instructions.

3. Getting Started with TeleNav

There are 4 steps you will need to follow before your TeleNav service can become active:

STEP 1: Set-up your TeleNav account at http://www.telenav.com

Before you can begin using your TeleNav system, you will first need to establish your TeleNav account by going to **www.telenav.com** and clicking on the "SIGNUP" button. Proceed through the sign-up instructions as displayed on the website.

STEP 2: Contact Nextel to activate a packet data service plan.

The TeleNav application that resides within your phone communicates with the TeleNav servers using Nextel's Total Connect packet data service. Contact Nextel's Customer Service Dept. on a phone other than your Nextel phone at 1-800-639-6111, select option 1 followed by option 3, enter your Nextel

phone number, and then select option 1 followed by option 3 again (or dial 611 on your Nextel Phone and select the menu option for Nextel On-Line). Ask the service representative to add the Total Connect plan with a private IP address (not public) of your choice.

TELENAV USAGE	RECOMMENDED PLAN
Less than 10 trips per month	As-You-Go $2.99 [1]
60 to 100 trips per month	1 megabyte $9.99
300 to 500 trips per month	5 megabytes $19.99

STEP 3: Configure the GPS privacy settings in your phone so that the TeleNav Java application can obtain position fixes from the internal receiver.

STEP 4: Place the phone so it can receive the GPS satellite signals from space. These signals are very faint, and come from virtually every direction in the sky as the satellites move through their orbits. We recommend placing the phone in a mount above the dashboard of your vehicle for best results.

4. Installing TeleNav on Your Phone

NOTE: TeleNav comes preloaded on the Motorola i730. These instructions are provided in case TeleNav is removed from your phone and you would like to reload it.

STYLE: In this guide, boldfaced upper-case words like **SELECT** refer to labels that appear on the display directly above an Option Key. If this guide asks you to press **SELECT**, it means you should find the Option Key below the **SELECT** label on the display, and press it.

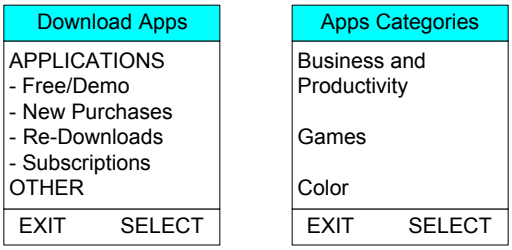
NOTE: You need at least XXXX kilobytes (KB) of program memory and XXXX kilobytes (KB) of data space to install and use TeleNav on your phone. Follow these steps to install the program to your phone:

a.) Press the **Menu** key on your phone, and scroll down until **Settings** is highlighted. Then press the **SELECT** key on the right. Then scroll down until **Initial Setup** is highlighted, and press the **SELECT** key again. If the year is not the current year, scroll down until **Year** is highlighted, then press **CHANGE**. Key in the correct value, and press **OK**. Then, press **YES** to confirm the change. Press **BACK** to return to the top level MENU.

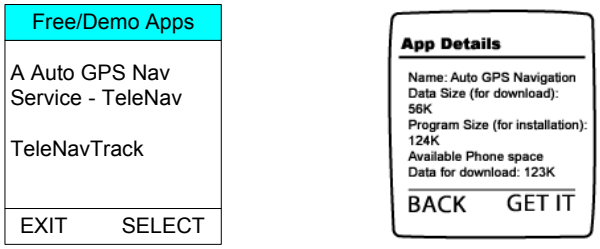
b.) Press the **Menu** key on your phone and using the Navigation Key, highlight **Java Apps**, and press **SELECT**. Then highlight **Download Apps** and press **RUN**. If you see **INSTALL** instead of **RUN**, press it to complete loader installation, and follow the guidance given on the screen. Then press **RUN**

c.) The downloader will then contact Nextel's server to obtain the top-level catalog for your phone. In this top-level catalog, highlight **Free Applications** or **Free/Demo,** and press **SELECT**. Again, the downloader will contact Nextel's server to get the next catalog level. At the next level, highlight the **Business and Productivity** category, and press **SELECT**.

[1] The As-You-Go plan is $2.99, and data usage is billed additionally at $0.05 per kilobyte. If you make more than 10 trips, the total cost of this plan will likely exceed the cost of the Total Connect 1 megabyte plan.



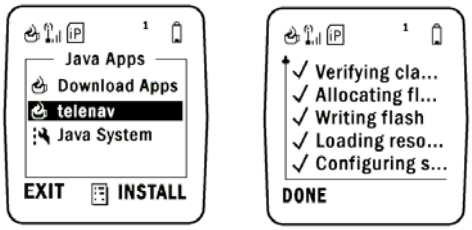
d.) After the Business/Productivity catalog has loaded, highlight **Auto GPS Nav Service - TeleNav 2.2** in the list of applications, and press **SELECT**. (If a newer version is available, select it, and consult the TeleNav website for an up-to-date user guide.) Next, the TeleNav application details are presented. After reading the product description, press **GET IT**.



Note: Data and program sizes shown above are not the actual values – please consult the phone display.

e.) Wait while TeleNav downloads to your phone. This may take 1 to 2 minutes. Once downloaded, you will see a screen with further instructions. **Please read the instructions carefully.** When you're done, press **EXIT**.

f.) Highlight **TeleNav** and press **INSTALL**. As the TeleNav software installs, a check mark appears to the left of each row on the display. When installation is complete, press **DONE** and you will be taken back to the main MENU.



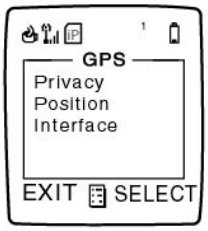
If during the installation process the phone reports that it does not have enough space to install TeleNav, you may have to remove one of the other Java programs to create space for TeleNav. You can remove any program except **Java System** and **Download Apps**. If you accidentally remove either of these, you must take your phone to a Nextel service center to have the software reinstalled!

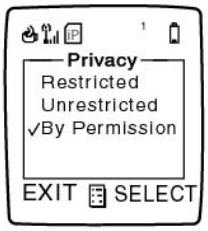
To remove a program first highlight the program you want to delete. Then press the **Menu** key, and select **Deinstall** to remove the program. Follow the steps on the screen until the program has been removed then repeat steps d-f above.

5. GPS Privacy

Your phone restricts access to its GPS location data. The phone's GPS receiver can be in one of three modes: 1) Restricted, 2) Unrestricted or 3) By Permission. To allow TeleNav to access the GPS data requires changing the Privacy Settings in two places.

First, press the **Menu** key, select **GPS** and then from the **GPS** menu, select **Privacy**. In the **Privacy** menu, scroll down until **By Permission** is highlighted, and press **SELECT**. A check mark should appear as shown below on the right. Then, press **EXIT** to return to the main menu.





Second, you have to change the TeleNav application privacy setting so that it is one of the applications that has Permission as described above.

1. To do this press the **Menu** key and then select **Java Apps**.

2. Once in the Java Apps menu highlight **TeleNav** and press the **RUN** soft key.

3. Because the phone has not tested the Privacy Settings for TeleNav before, it will challenge this action, and ask if you want to grant permission. You should press **GRANT**. Then, it will ask you if you want to grant access always, so press **YES**.

Because the TeleNav application was "suspended" by this security challenge, after you press **YES** in response to the "Always Grant" question, the following screen will appear.

At this point, you should press **RESUME**. Future invocations of the TeleNav application only require you to press the **Menu** key, select **Java Apps**, highlight **TeleNav**, and press **RUN**.

If later on you want to block TeleNav's access to GPS location fixes, you will have to change the Privacy Setting to "Restricted".

6. Using TeleNav

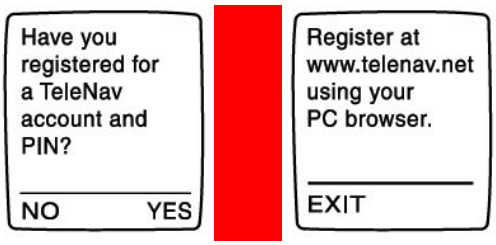
Launching the Application

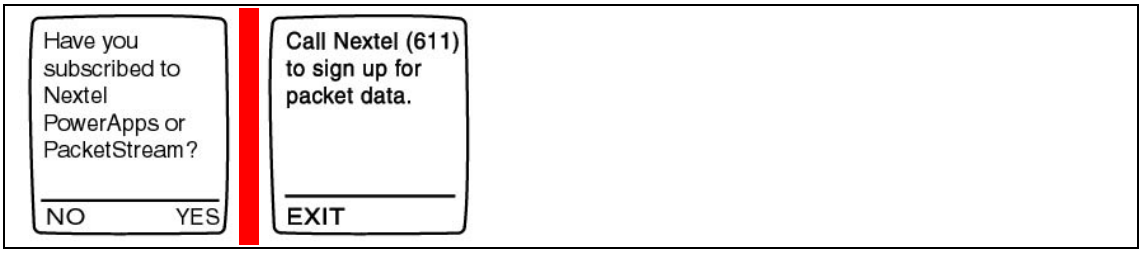
To launch TeleNav on your phone, press the **Menu** key, scroll down using the Navigation Key until **Java Apps** is highlighted and press **SELECT**. In the Java Apps menu, scroll down until **TeleNav** is highlighted, and press **RUN**.

After selecting TeleNav, the banner screen will appear for a few seconds.

Logging In

If you choose to use any of the lower or upper tier paid services, you will be asked if you have a TeleNav account and PIN. If you have already created a TeleNav account click YES, but if not, click NO; and go to www.telenav.com using a PC-based Web browser to create an account.


Have you registered for a TeleNav account and PIN?
NO
YES
Register at www.telenav.net using your PC browser.
EXIT



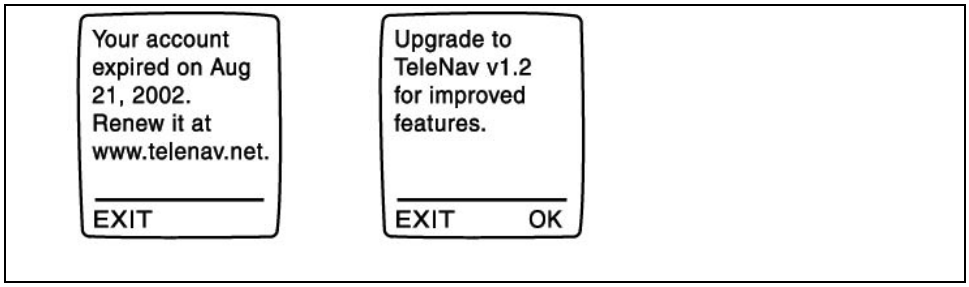
If you already have Total Connect, click YES, but if you do not, order Total Connect -- see the GETTING STARTED section above for ordering details.

Next you must agree to the TeleNav terms of use and software license by pressing **YES**.

The next screen will collect the same account number and PIN you provided when registering for TeleNav services at www.telenav.com. Your account number MUST be the same as your Nextel phone number with area code so that when you call the Voice Address Input System you will not need to type in the account number. After you have entered the account number, use the Navigation Key to move the cursor down to the PIN entry field. When you have finished entering your PIN, press the **OK** soft key to proceed.

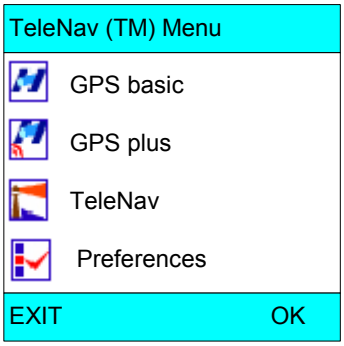
NOTE: If after you press **OK**, the TeleNav application indicates that it cannot reach the TeleNav servers, the most likely reason is that your Nextel packet data service plan is not yet active. If the application reaches the TeleNav servers, the server will cause your phone to remember the account information so that you will not need to enter it again.

NOTE: If your TeleNav account is expired, you will be notified at this point, and will be directed to go to www.telenav.com to extend your service agreement. You will not be able to progress beyond this point until your account is returned to current status. You may also see an important message from us regarding upgrades, scheduled downtime, pending account expiration, etc.



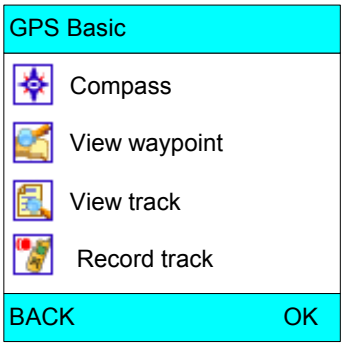
Main TeleNav Menu

After the application launches, you will be taken to the **TeleNav™ Menu**. This menu packages the free basic services, the lower tier paid services, and the upper tier paid services. It also provides access to user Preferences where you can set the system of units and tracking record interval. Highlight your choice, and press **OK**.



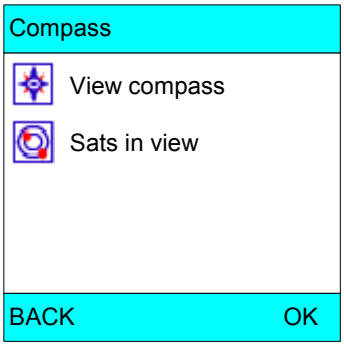
GPS Basic (free services)

If you select GPS basic from the main menu, you will be taken to the next lower level menu. You can make a choice by highlighting the item, and press **OK**. Otherwise, press **BACK** to return to the main menu. The submenu item shown as **Record Track** starts recording a track, and then the menu item changes to **End Track**.



Compass

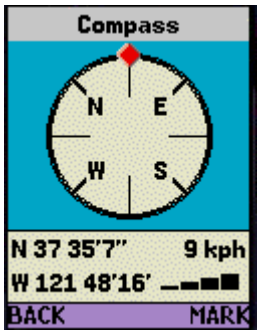
If you select **Compass** from the submenu, you will see a lower level menu with the options of **View Compass**, and **Sats in View**.



© TELENAV 2003-5

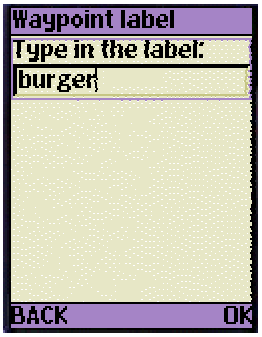
View Compass

If you choose **View Compass**, you will see a display similar to a nautical compass, but more correctly it actually displays course over ground, the direction you are traveling. Unlike a real compass, you have to be moving to determine course over ground. The screen also provides current latitude and longitude, and speed. Using the main menu **Preferences**, you can select the format of the latitude and longitude as degrees, minutes, and seconds; or decimal degrees format. Using the main menu Preferences, you can select the format of the speed as miles per hour or kilometers per hour. Press **BACK** to return to the Basic submenu. Press **MARK** to start the process of marking your current location for future reference.



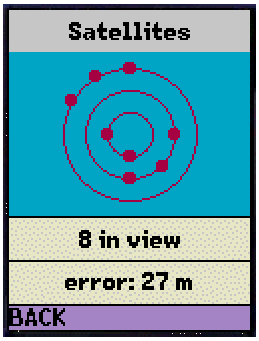
If no GPS data is available, "no GPS" appears instead of latitude and longitude. Otherwise, a GPS satellite count indicator occupies the area below the speed value. Add three (3) to the number of bars shown to determine the number of satellites in view (up to 7 maximum).

Marking a Waypoint. If you press **Mark**, there will be brief activity to determine the GPS position, and then you will need to select an icon for the waypoint, and enter a label of at least 3 characters length.



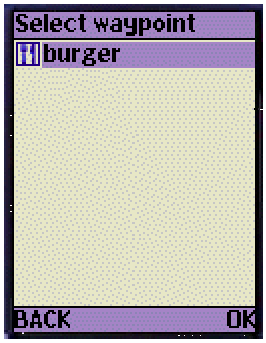
Sats in View

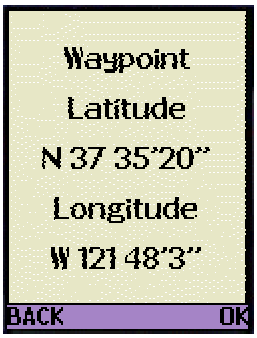
Choosing this view will allow you to determine how many satellites TeleNav is currently using. The diagram is illustrative; it does not actually depict the spatial relationship of the GPS satellites. The error value shows in feet or meters according to the **Preferences** for distance. If no satellites are visible, the number in view and the error value are replaced by "no GPS".

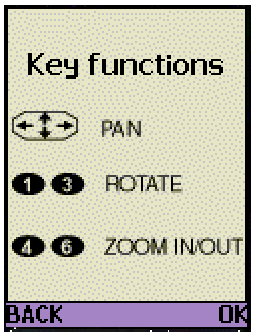


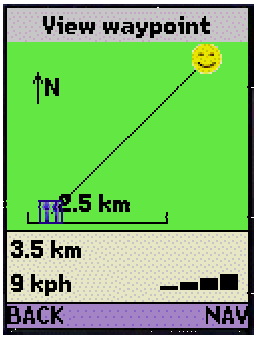
View waypoint

Selecting **View waypoint** allows you to select a previously marked waypoint, and see its spatial relationship relative to your current location. If you have not marked any waypoints, you will simply get a message "No waypoints" and you should press **OK** to return to the submenu. Otherwise, you will see a list of waypoint labels and icons to pick from. After you pick one, you will see the waypoints latitude and longitude. The next display teaches you the key functions that allow you to manipulate the following screen that shows you the relationship of your current position to the waypoint. The Smiley Face is your location, and the other end of the vector is the waypoint's icon. The view is North oriented, and the approximate distance to the waypoint is shown, along with your current speed and the GPS signal quality indicator.

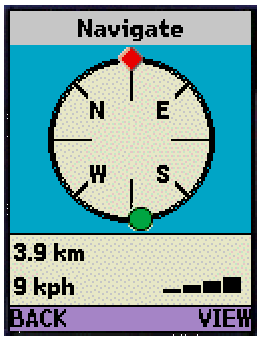








In the last display above, the waypoint is southwest of your current location. To see its relative position to your current direction of travel, press **NAV** to product the following view.

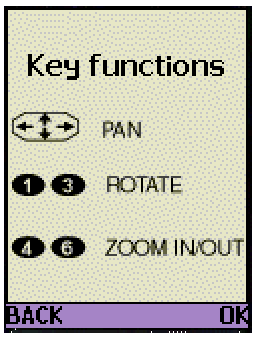


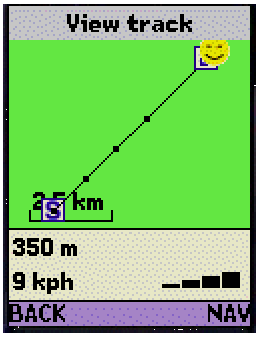
This view shows that the waypoint indicated by the green circle is almost directly behind you in the southwest direction as you learned from the prior view, but since you are traveling toward the northeast, the waypoint is almost directly behind you. The display also shows your speed, and the distance to the icon. This view updates as you move.

© TELENAV 2003-5

View track

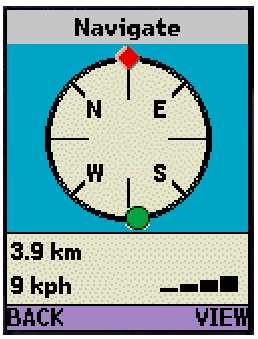
Selecting **View track** allows you to select a previously recorded track as shown above for Waypoint selection, and see its spatial relationship relative to your current location. If you have not previously recorded any tracks, you will simply get a message "No tracks" and you should press **OK** to return to the submenu. If you are currently recording a track, you will not be able to view it until you have stopped recording from the prior submenu. The first display you will see after selecting a recorded track teaches you the available control keys (the same behavior as above for viewing a waypoint).





After you have reviewed the teaching screen, press **OK**. On the next screen, the letter S icon shows where the track started, the small dots show the recorded points along the track, and the letter E icon (partially under the Smiley Face) is where the track was ended. The Smiley Face relates your current position to the track. However, the track view is defined solely by the extent of the track, so if your current location is not near the track, you will have to zoom out before your location will be visible.

If you press the **NAV** key, you will get a display similar to the NAV view for a waypoint, but with an important difference. The green dot is the closest recorded point on the track that is in the semicircular area from directly to the right of you, crossing through directly in front you to directly to the left of you, unless there is none, at which point it simply becomes the closest point along the track that is "behind" you. As you approach a point along the track in front of you, the green dot should overlay the red diamond indicating you are approaching the recorded point. As you pass the point, it will be replaced the next recorded point in the track list. This will allow you to retrace a track you have previously recorded from S to E, or from E to S; and even to join the track at any intermediate recorded point.



Record Track/End Track

After you select **Record Track**, you will be asked to select an icon for and label the track as described above for waypoint marking. After you press **OK**, the **Record Track** item in the submenu will become **End Track**.[2]

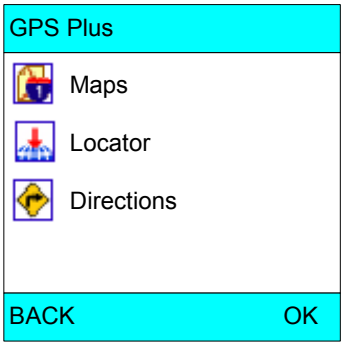
[2] The drawings of the phone screens in this document are not proportional to the actual screens. Instead, they are drawn taller or shorter to allow the presented content to be shown completely.

© TELENAV 2003-5

Select **End Track** when you are ready to stop recording. The initial time interval for the recording is set under **Preferences**. There is a maximum of 60 entries in the track list, and if you attempt to record more, the interval is automatically doubled in time, and half the previous data (alternating points) is discarded.

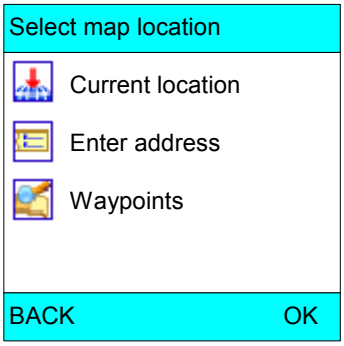
GPS Plus

GPS Plus is the lower tier of paid subscription TeleNav services. You must have subscribed or be using a promotional free trial to be able to access these services. The submenu for these services allows you to select maps, a suite of location services, and driving directions.



Maps

If you select the **Maps** option and have not subscribed to GPS Plus services, you will be advised that you need to sign up for this tier of services at the TeleNav website. If you are a subscriber, you will get the map location menu:



If you choose **Current location**, there will be brief activity while TeleNav employs GPS to determine your location, followed by a transaction with the TeleNav server to retrieve the data needed to draw the map.

If you choose **Enter address**, you will be presented with a screen labeled **Map location** that allows you to enter a new address, refresh the list, or pick a recently used address from the list. Address entry is described later in its own section of this guide. After you have entered an address and it is validated by the TeleNav server, the data needed to draw the map will be sent to your phone.

If you choose **Waypoints**, you will be provided with a list of waypoints you have previously marked. You select the one you want, and the coordinates are sent to the server to that it can reply with the data needed to draw the map.

Map View

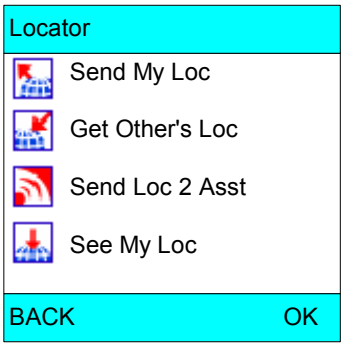
Before the map is drawn, a helper screen is shown that describes how to move (pan) the map, and how to zoom in and out. Here are the key functions –

- 4-way navigation key – moves the map up and down, and left and right (panning)
- 4 key – zooms in (this key is also the letter "I', as in "In")
- 6 key – zooms out (this key is also the letter "O', as in "Out")
- The 2, 5, and 8 keys rapidly change the zoom level (the range is 1 through 9). The current zoom level is shown in the upper right corner of the map (except when data is being received from the TeleNav servers). The lower the level, the closer the zoom. To rapidly go between levels, press 2, 5, or 8, and then one key press of 4 or 6 will take you exactly to the level you desire. For example, to go to level 3 from level 7, press 2 and then 6 (Out).

Every time you move (pan) or zoom, there will be brief server activity to fetch the updated map depicted by animation in the upper right corner of the map. Give TeleNav 15 seconds to complete your request for a change. The map is always oriented with North towards the top.

Locator

The locator allows you to send your location to someone else via e-mail or the short messaging service (SMS). You can also request location from another TeleNav subscriber (who may or may not agree to send it to you.). You can also post your location to the TeleNav servers so that someone else can go to the TeleNav website to see where you are located. You control access to this feature with a one-time use access control PIN. You can also ask the TeleNav server to convert the latitude and longitude you see on the Compass view to a more conventional approximate street address.



Send My Location

You can send your location to a phone number via SMS provided you know the wireless carrier. You can also send your location to an e-mail address. The most recently used recipient addresses are retained for future use, and newer addresses push older ones off the bottom of the list.

To an E-mail - If you choose to send to an e-mail address, you can pick a domain name from one of the major domains like AOL or MSN, but otherwise, you should select "Enter e-mail in full". After you make a domain choice, you enter only that part of the e-mail that precedes the "@" symbol when asked to provide the e-mail account name. If the recipient's domain name is not in the list, you will need to enter the complete e-mail address. To change between alpha, numeric, and symbol input modes, press the **Menu** key, make a mode selection, and then key in the characters. You may have to change modes several times to handle numbers, letters, special characters, and punctuation symbols.

To a Phone – If you choose to use SMS to send your location, first you must select the recipient's wireless carrier from a list. Then you provide the phone number. Note that the first carrier listed is TeleNav! If you send your location to a TeleNav subscriber, the receiving subscriber can use the address you send by saving it as a labeled waypoint.

Transmission Confirmation – After the address has been input and you press **OK**, a message stating, "Your message has been sent to <address>. Thanks!", will appear. Here <address> is either an e-mail or an SMS messaging address. Note that this confirmation does not imply that the recipient has received the message.

Message Format – When the recipient receives a location message, it will cause an SMS alert or an e-mail message will appear in his in-box. The format of the SMS message is -

From: TeleNav_Admin

Subj: Alert

[FR:] <name> @ <m_address>

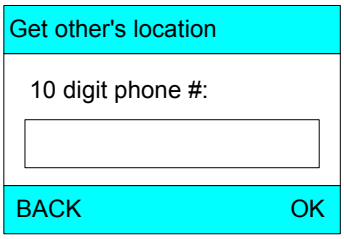
[MSG:] I'm near <p_address>

Here, <name> is the first name of the TeleNav account holder, and <m_address> is his phone number. The <p_address> is the approximate address of the sender determined by looking up the street address closest to the latitude and longitude produced by the GPS receiver. The available user actions are dependent upon the handset implementation of SMS message handling. The format of the e-mail message is similar, except that the From and Subject field contents will be in their conventional places in the e-mail message.

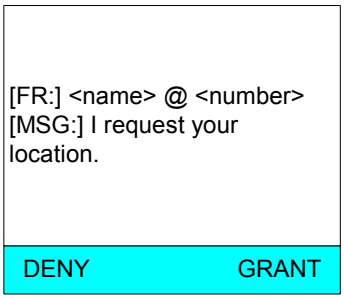
Get Another Person's Location

This feature works provided the other person is a TeleNav subscriber. XXXX when does it work XXXX. To use this feature, enter the other person's Nextel phone number, and press **OK**. If the other person consents to your request, you will receive his/her location shortly.

© TELENAV 2003-5



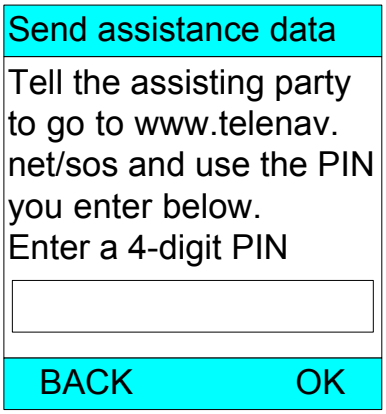
Location Consent - When a TeleNav subscriber attempts to determine the location of another subscriber using the Get Another's Location feature, the recipient will receive a location read request:



TeleNav fills the <name> field using the first name of the TeleNav account holder making the request, and the <number> field is the account holder's account number. If the person receiving this message picks **DENY**, he will see a message that states, "A denial SMS message has been sent to <number>", and the only option is to press **OK**. On the other hand, if the person receiving this message picks **GRANT**, he will see a message that states, "XXXXX".

Send My Location 2 Location Assistance

After you select this feature, you provide a one-time use access control PIN. After your location has been sent to TeleNav's servers, whoever has this access control PIN and your phone number can go to the TeleNav website and determine your approximate street address.


Send assistance data
Tell the assisting party to go to www.telenav.net/sos and use the PIN you enter below.
Enter a 4-digit PIN
BACK
OK

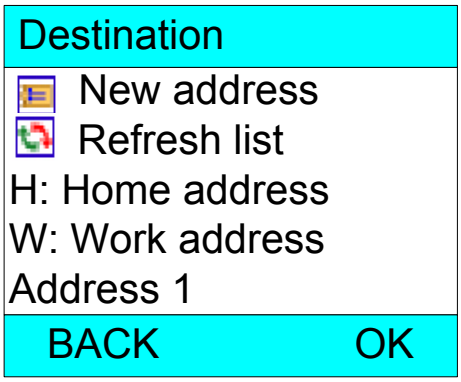
After you enter the PIN, you will see the server confirmation that includes the street address you're near. You tell your assisting party to go to www.telenav.com/sos on the Internet, and enter your Nextel mobile phone number and the PIN you have just created. Note: Your prior location is overwritten each time you use this function.

See My Location

After TeleNav reads your current GPS location, it sends it to the TeleNav servers where the latitude and longitude is converted into an approximate street address that is displayed to you. If the street is not numbered, the <street address> field may be just the name of the street or road you are using. The street address may be either a numbered approximate address, or the names of the nearest crossing streets. By convention, West longitude has a negative sign, and North latitude has a positive sign.

Driving Directions

By selecting Directions from the GPS Plus menu, you will be able to get driving directions between two addresses in the coterminous 48 states or within Hawaii. First, you select or input your destination:



The first item, **New address** allows you to enter a new address directly from the key pad. The second item, **Refresh list** causes the application on the phone to update its current address list from the TeleNav servers where addresses that were recently called in using the Voice Address Input System or using the TeleNav web site are stored.

Your Home and Work addresses will only appear if you have created them previously using the TeleNav web site, or the Voice Address Input System.

Following these "fixed" list items are 10 more recently entered addresses. This feature allows you to input multiple addresses using the TeleNav website or Voice Address Input System so they will be ready to use on TeleNav on your phone.

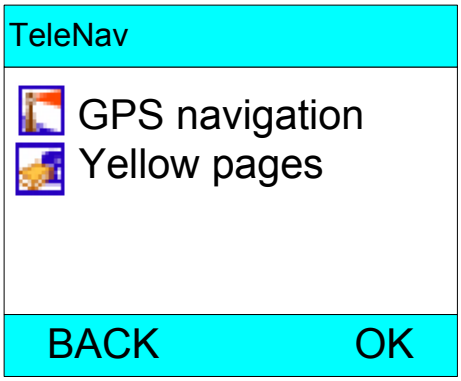
You can select any address on the list or input a new address to set the destination. After you select an address, you will see a confirmation screen that allows you to **BACK** up if you picked the wrong address. To proceed, press **OK**, or just wait for the timer to count down.

Then you will specify the origin/starting address using the same procedure.

After both endpoint addresses have been selected or entered, the TeleNav servers will send your phone the driving directions. The format of these displays is covered under **Guidance Displays** later in this document. To move back and forth through the displays, press the left or right portion of the Navigation Key on your phone. When you are through reviewing the directions, press **BACK**.

TeleNav

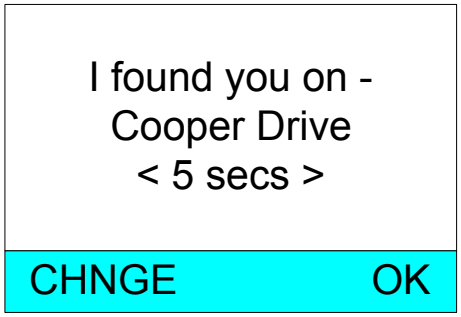
TeleNav is the upper tier of TeleNav services, and provides real-time navigation, and the ability to located businesses and points of interest (POIs) around your present location, a waypoint, or an address you specify. Highlight your choice, and press **OK**.



GPS Navigation

The user interface for navigation works similar to the user interface for Driving Directions that is described above. The important difference is that you do not input your origin because the origin is your current location determined using the GPS receiver.

After you input or select your destination address, you will see a confirmation screen that allows you to **BACK** up if you picked the wrong one. Then, TeleNav determines your location using the GPS receiver. If you are in a parking lot or similar area where your location does not exactly map to a specific street, you may see a screen that says:



If you are not on the suggested street, press **CHNGE** and pick the street you are on from the displayed list. Otherwise, press **OK**, or just wait for the timer to count down.

Next you will see the first of the guidance displays that will direct you to your destination. These displays are described below under **Guidance Displays.**

Yellow Pages

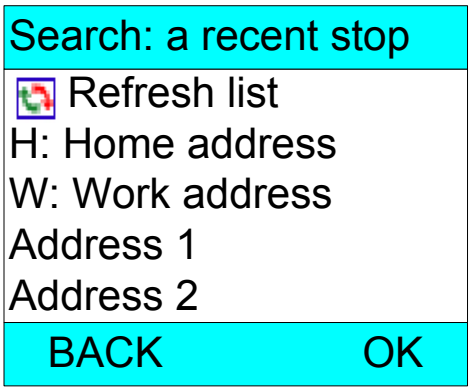
If you select Yellow Pages, the first thing you must do is to help TeleNav determine where you want to look for the business or point of interest. Once you have picked a point or an area, you can search topically by **Category** name, or by entering the first few letters of the **Business Name**.

Search Point

You can search around where you are (here), around an address you recently used or entered (a recent stop), within a named city, within a ZIP code, around an airport, or around a waypoint you previously marked. You can also enter a new address, and search around it.

Selecting **Here** causes the GPS receiver to determine you current location as the search point.

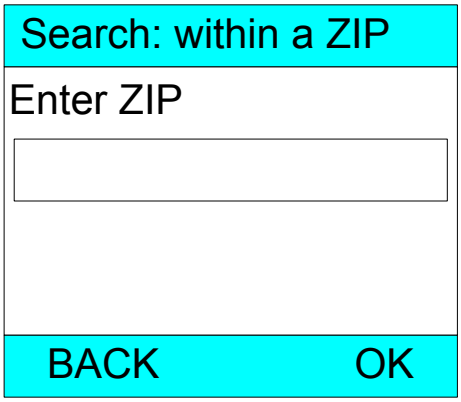
If you select **A recent stop**, you will get a list of recently used addresses, but may need to **Refresh list** to update the list with addresses enter using the Voice Address Input System or the TeleNav web site. Once the list is updated, simply highlight the address you want, and press **OK**.



If you select to search **Within a city** by name, you can either use one of the cities you have used previously, or enter a new one. The state and city name entry process is described below under **Keypad Address Entry**, but the entry process ends before collecting the street name and number.

If you select to search an area **Within a ZIP** code, you just enter the 5 digits of the code, and press **OK**.
Hint – Entering a ZIP code is quicker than entering a new state and city name.

© TELENAV 2003-5



If you select to search around a **New Address**, you enter either the ZIP code, or the state abbreviation and city name; and then the street address (street name and number, or street name and crossing street name). See **Keypad Address Entry** below for the details.

If you select to search around an **Airport**, you enter the 3-letter airport code, the first three letters of the city or market name where the airport is located, or the first three letters of the airport's given name. For example, to find John F. Kennedy International Airport, you can enter "JFK", the airport code; or "NEW", the first three letters of New York City, the market it serves. After you have entered your search key, press **OK**. If you enter the prefix of a city name, you may find multiple matches. For example, entering "NEW" will produce a list of airports in New York City, Newark, New Orleans, etc. Similarly, if you enter "DUL" in the name field, you will be able to locate Dulles International Airport outside of Washington, DC.

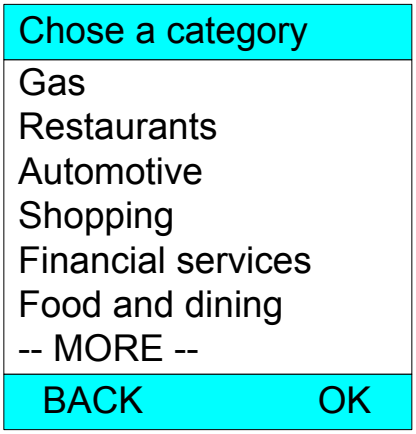
If you choose to search around a **Waypoint**, you will see a list of the waypoints you have marked to record location, labeled with a name and decorated with an icon. Highlight the one you want, and press **OK**.

After you have specified the search point or area, you are offered the choice to search the **Categories** that TeleNav uses to group businesses, or using the first few letters of the **Business name**.

Category Search

If you select categories, TeleNav will contact its servers to get the current category list. The category list spans several displayed pages. To move down the list, find the **MORE** entry, and press **OK**.

© TELENAV 2003-5



Some categories, particularly **Restaurants**, will have many subcategories that are displayed similarly, and will require you to select **MORE** and press **OK** to continue through the subcategory list. The list of categories and subcategories may change as TeleNav updates the directory. After you have drilled down through the category tree, you will be presented a list of matching business names.

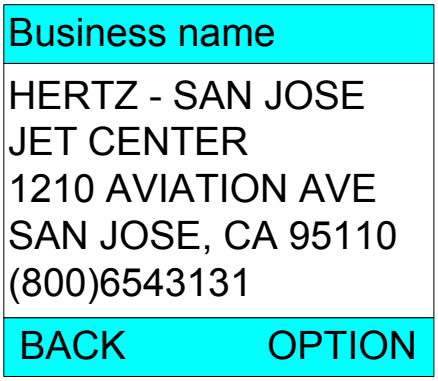
Business Name Search

If you select the **Business name** search method, you will need to enter the first few letters of the business name. After you press **OK**, you will be presented a list of matching business names.

Picking a Business

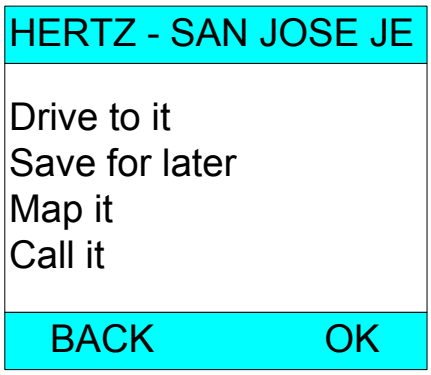
After you have selected a specific lower level category, or entered part of a business name, you will be presented with a list of businesses that are near the search point, or within the search area you specified. For searches conducted around a point, the mileage (as the crow flies) from the point to the business is included. For area searches, no mileage is shown.

After you highlight and pick a specific business, you will see a screen that shows: a) the name of the business, b) the street address, and c) the phone number.



The **OPTION**s are: 1) drive to the address, 2) save the business address for later, 3) obtain a map around the business location, or 4) call it using your Nextel phone (requires a calling plan). If you **Save for later**, the address is sent to the TeleNav servers so that it will appear in the recent addresses list, but first you will need to use the **Refresh list** feature.

The **Call it** feature is only present in the options list if the prior display shows a phone number. If you choose **Call it**, the phone number will appear on your phone's calling screen, and you will have to press the Green Send key to place the call. When the call is completed, press **Menu**, select **Java Apps** to return to **TeleNav**, and press **RESUME**.



Preferences

If you select **Preferences**, you can change; 1) the distance units to either feet and miles, or kilometers and meters, 2) the tracking interval from once per minute to once per hour and 6 intermediate values, and 3) latitude and longitude display format. Distance unit changes apply across the TeleNav application. Latitude and longitude can be displayed in decimal degrees or in degrees, minutes and seconds.

Address Entry

Addresses can be entered in four ways.

1. Call the Voice Address Input System and dictate the address.

2. Use the TeleNav website.

3. Type in the address in the address fields in the Java application on your phone using the keypad

© TELENAV 2003-5

4. You can also transfer an address from the Yellow Pages **Save for later** feature as explained above.

After you use method 1 or 2, be sure to use the **Refresh list** feature to update the list of addresses appearing on TeleNav on your phone.

Voice Address Input (Recommended Method)

Call the Voice Address Input System at 408-523-1429 or 877-886-9762, and dictate your address as prompted. Below is a sample of what you will hear and say:

TeleNav prompt> Welcome to TeleNav! Powered by TeleNav. Say the city and state you want like San Francisco, California.

Your response> Arlington, Texas

TeleNav prompt> I heard Arlington, Texas. To change this say GO BACK. Say the street you want like WILSON AVENUE, or say Highway and the route number like Highway 405.

Your response> Oak Street

TeleNav prompt> I heard Oak Street. To change this say GO BACK. Say the street number or say INTERSECTION to name a cross street.

Your response> 1620

TeleNav prompt> I heard 1620. To change this say GO BACK.

<pause>

TeleNav prompt> Address entered. Please launch TeleNav on your Java Phone

<call is terminated>

The Voice Address Input System may reply back with an incorrectly recognized input. When this happens, simply say, **"Go Back",** and repeat the data entry. The voice system may advise you that a street number is out of range and provide the proper range of numbers for you to use. Provide a number that is within the range or nearest the end of the range that you are sure is valid. If you say **Intersection** and then provide a crossing street name, the voice system may advise you that the streets you provided do not actually cross and allow you to change either street name, or both street names. Select the name you want to change by saying it, and then provide the correct name.

You can also say **my Home** or **my Work** to program these addresses for use on the handset. If you want to change one of these addresses, say **my Home** or **my Work**, wait for the current address to be repeated back to you, and then say **Update**. You can also say **Airport**, and then give the name of the airport, its location city or its market city name.

After the Voice Address Input System has completed its dialog with you, it will advise you to launch the TeleNav application, and then it will hang up. If TeleNav is running, you should press **MENU, RUN Java Apps**, press **RESUME,** and choose the **Refresh list** option when you see the list of addresses so that recently dictated addresses will appear in the list.

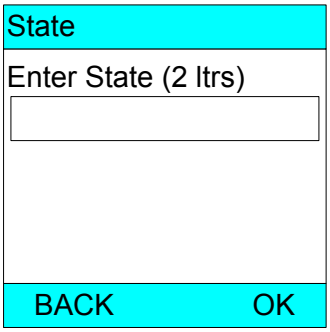
Keypad address entry

To enter a new address you need to first select **New address.** Next you can select one of the recently entered cities, an airport, or a waypoint. You can also enter the new address using a City/State

combination, or a ZIP code followed by entering the numbered street address or the crossing street names.

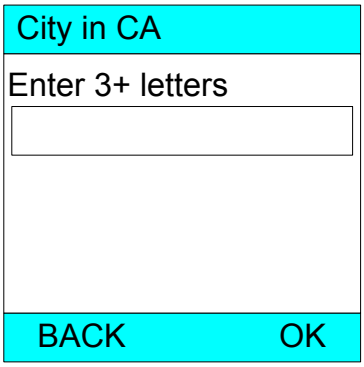
New City/State

If you select **New city/state**, you will be taken to the State entry page. Here you first enter the US Postal Service state abbreviation e.g., "CA" for California. First, you will have to press **Menu** and change from T9 Word to Alpha mode.



After you enter the state USPS code, you will be asked to enter the city name. You may want to change from T9 Word to Alpha mode first if the name you are trying to enter is not likely to be part of a commonly used word. Only the first three (or more) characters are needed to enter the city name. For example if you were trying to enter "Sunnyvale" as the destination city, you would enter **sun** using Alpha mode. Using T9 Word mode will result in **run** if you press **786**. On the other hand, if you wanted "Santa Clara", T9 Word mode does produce **santa** if you press **72682**.

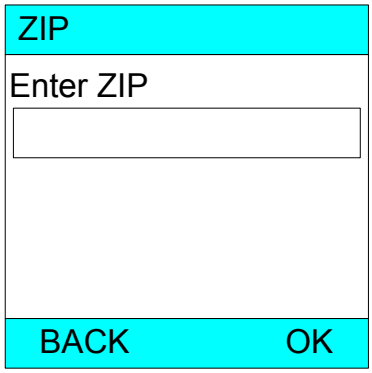
Hint: Use the "*←" key at the lower left corner of the keypad to backspace and remove incorrectly entered letters.



After you enter a city prefix, you will be presented a list of city names to choose from, unless there is only one unique match. If there are too many matching names, you may be asked to enter more letters. Highlight the city name you are looking for using the up/down Navigation Key, and press the **OK** key. After you pick a name from the list, or if the name is uniquely matched, you are taken to **Street Name Input**, see below.

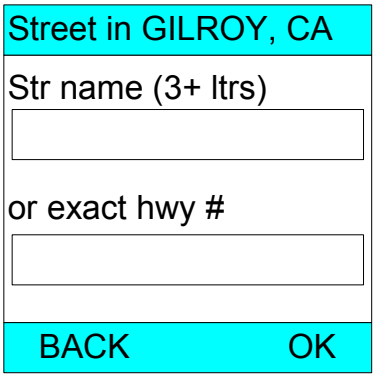
Zip Code

To enter a ZIP code, select **New ZIP**, enter a valid ZIP code, and press **OK**. Once you've entered a valid zip code, the TeleNav servers will find the matching city and state name for the Zip code, and then you will be asked to enter the street name.



Street Name Input

You enter three or more letters or numbers in the destination street name, or move down to the highway entry field using the Navigation Key and enter the numbers of the route number. For street names, you may have to change the input mode from T9 Word to Alpha or Numeric mode by pressing **Menu**, and making a selection. For example to enter "223rd Street", because it is a street name and not a highway number, you will use the upper field, press **Menu**, select Numeric mode, enter **223**, press **Menu** again, select Alpha mode, and enter **rd** before pressing **OK**.



As in the city name case above, after you enter part of the street name, you will see: a) the street name list, b) an advisory that too many matches were found and you should enter more letters, or c) an advisory that no matching name was found.

Next you will be asked to enter either the address number or intersecting street name. Use the Navigation Key to select between address number and intersecting street name input rows.

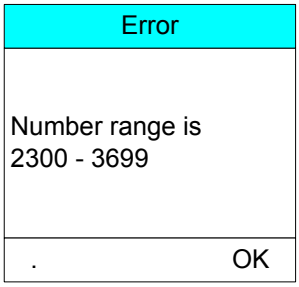
To enter an intersecting street, navigate down, enter the first few characters of the intersecting street name. For streets that are numbers, use the number abbreviation input method described above. To enter a street number simply key in the number. When you have input the name or number, press **OK.**

© TELENAV 2003-5

If you enter a cross street name prefix, you may be presented with a list of street names to choose from. Highlight the one you want, and press **OK.**

Address input checking

Once you have entered the street address or selected the crossing street name, TeleNav will check to see if the address you entered can be found. This checking makes sure that: a.) the address (door) number you entered is within the range of assigned numbers for the named street and b.) when crossing street names are provided, the streets do actually cross. If either condition is false, or the address is too new to be found in the mapping database, the server will send a message to your phone requesting you to correct the provided information. For example:



Using an Airport as an address

Simply highlight **Airport**, and press **OK**. The label field at the top of the next display changes depending on the context you are using. There are two input fields, one for the airport code, such as IAD for Dulles International; and one for the airport name, location city or market city prefix.

If you enter NEW in the name or city prefix field, the server will produce a list of airports in NEW York City, NEWark, NJ, etc. You simply highlight the one you want, and press **OK.**

Using Yellow Pages to find an address

See the above section regarding the Yellow Pages feature for more detailed information. To use Yellow Pages to set an address: a) specify the search point or area first, b) decide whether you want to search by Category or Business Name, c) navigate through the categories if you selected Category search until you have reached the list of matching businesses, d) select a specific business, and e) press **OK**.

XXXX bug fix XXXX

© TELENAV 2003-5

Using a Waypoint as an address

If you choose to use a Waypoint as an address, you will be presented with a list of waypoints you have previously marked and labeled. Highlight the one you want, and press **OK**. At this point, your phone will contact the TeleNav servers to convert the latitude and longitude of the waypoint to an approximate street address.

Activity Messages

Whenever the TeleNav application on your phone needs server assistance, it uses Nextel packet data service. While it is using packet data service, other services such as DirectConnect (walkie-talkie), SMS 2-way messaging, and conventional cellular will not be available. Typically this interruption of other services will last no more than 20 seconds. When TeleNav is using packet data service to contact the TeleNav servers, it will present a message like: a) Reading GPS…, b) Waiting …, c) Sending …, d) Receiving…, e) Logging in…, f) Personalizing …, g) Loading icons…, and h) Loading audio. You will also notice a small network activity indicator in the upper right corner of the map display after you press a key to pan or zoom the map.

Error Messages

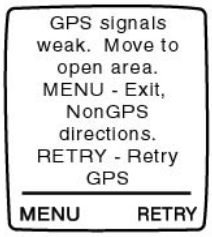
Error message: GPS Access Restricted

Cannot access GPS. Please change your privacy settings.
EXIT - Exit application, MENU->GPS->Privacy.
NONGPS - use static directions.
EXIT NONGPS

FIX: To change the privacy setting so that TeleNav can access the GPS, first **EXIT** the application, and then follow the directions provided above in the GPS Privacy Settings section.

Error message: GPS Signal Weak

Another situation may advise you that TeleNav is trying to acquire the GPS signal. If the GPS receiver has not been used recently, it may take a few minutes before the GPS receiver can locate the satellite signals, demodulate the data it needs, and produce a location fix. If the GPS receiver is connected and working, but signal reception is weak due to shadowing within the vehicle or due to buildings, trees, overpasses, etc., validation will fail, producing the following advisory screen.



- Figure 27: GPS data validation failure

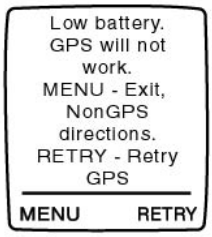
It is suggested that you move to an area with a clear view of the sky, and then click “RETRY”. Sometimes it can take up to five minutes before a GPS signal can be acquired. It is best to RETRY a few times before taking other actions.

If you’re still having problems you can still get static driving instruction by pressing MENU and then selecting “Static”.

Error message: Low battery (i88s and i58sr only)

The GPS will not start if the battery is very low. This is because the GPS receiver needs the phone battery to be at least half charged.

The phone should be charging using the GPS otherwise the phone battery depletes very quickly.



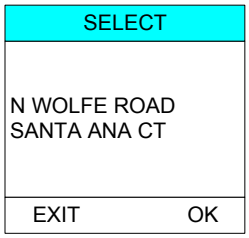
- Figure 28: Low battery error

GPS Working Correctly

If things are working correctly, GPS location data will be converted to a street address where TeleNav has located your phone. If TeleNav is not sure that it has accurately converted the GPS fix to a specific street address, the following screen will be displayed:

- Figure 29: Your current location screens

If the displayed street name is incorrect, you should press the CHANGE soft key, and select the street you are on from the displayed list by scrolling down until the desired name is highlighted, and then pressing the **OK** soft key.



- Figure 30: List of alternate streets that you may be on

NOTE: If you are not sure of the street you're on, simply select the first street in the list, and start driving. TeleNav will improve its estimate of your location, and provide you with a route regardless.

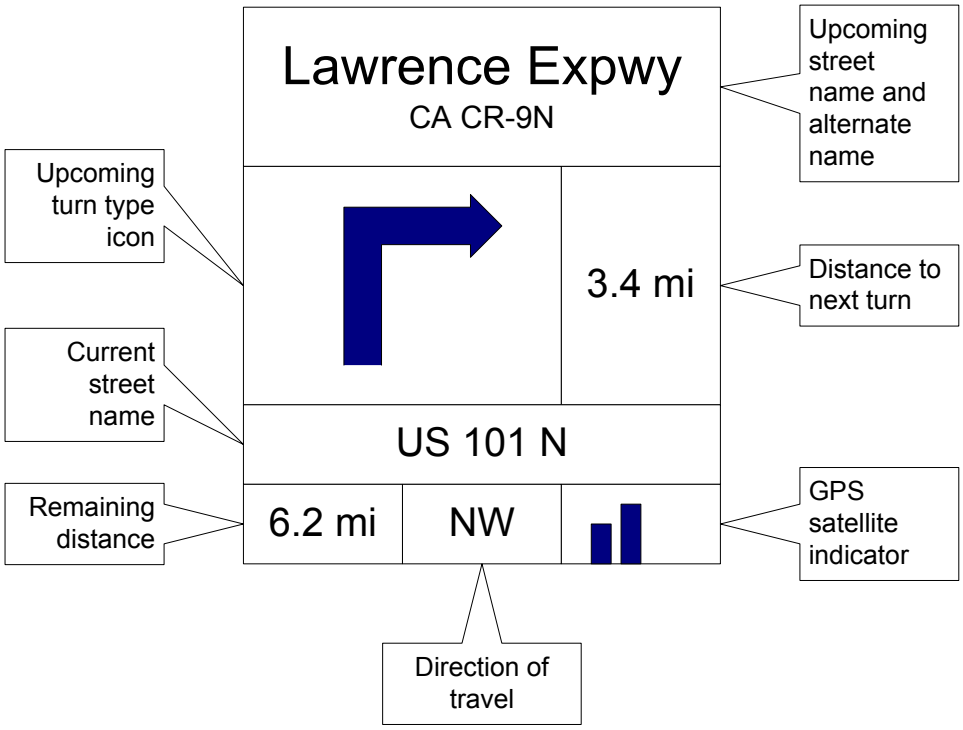
Within a few seconds, TeleNav will contact the TeleNav server, obtain an optimal route to your destination, and display the first instruction telling you how to start your trip from your current location.

NOTE: Unless you are moving, TeleNav will not be aware of your direction of travel. If this is the case, the first few driving directions may be incorrect. However, once you start moving, TeleNav will learn your direction of travel and provide a corrected set of driving directions.

© TELENAV 2003-5

Guidance Instructions

Driving directions and navigation guidance instructions on display screens with similar appearance. The Navigation screens you will see have the following content, but will have different proportions than those shown below. Driving directions and Non-GPS directions screens have slightly different content explained below.



Navigation guidance

If you will be traveling on the same roadway for a mile or more, the Upcoming and Current Street names will be the name of the street you are on, and the turn type icon will be a vertical arrow. As you approach the turn, the Upcoming Street name will change, and the icon will portray the actual type of turn you should make. As you move, the distance to turn and the remaining distance will decrease.

TeleNav plays a spoken audible prompt for most driving instructions. Audible preparation instructions are delivered 30-50 seconds before you will reach the turn unless the turns occur in rapid succession. Audible action instructions are delivered when you are closer to the turn and should be ready to take action.

Eventually, you will see the destination arrival screen. This screen will show you how far it is to your destination and whether it is on the left or right side of the street or road.

For TeleNav to work, the GPS receiver must be tracking four or more satellites. When 3 or less are being tracked, the satellite indicator will be blank. When four satellites are being tracked, one bar will appear. As more satellites are tracked, more bars appear. If the indicator is blank, you should more to an area with a clearer view of the sky.

When you arrive at your destination, press **BACK**. This will take you back to the TeleNav submenu.

© TELENAV 2003-5

Non-GPS mode or Driving Directions

From **GPS Navigation**, once all of the routing information is delivered to your phone, you can press the "NONGPS" key (shown above), to switch to static directions. You can also get NONGPS directions by selecting **Directions** from the **GPS Plus** menu and entering your origin and destination addresses.

Rocking the Navigation key to the right goes to the next page of directions, and rocking it to the left goes to the previous page of directions. In this mode, the Direction of Travel indicator is replaced by an indicator reading, "m/n", showing that you are viewing page m of a total of n pages. When n and m are the same, you have scrolled to the end of the route.

Miss a turn?

Whenever you miss a turn, turn the wrong way, turn too early or too late, or otherwise get off the planned route to your destination, TeleNav will automatically create a new route to your desired destination, audibly announce, "New Route", and give you a new set of instructions

If you also realize you have gotten off the route, just keeping going. TeleNav will detect your "departure" and calculate a new route to get you back on track.

Please note that it takes about 15 seconds for TeleNav to update your route. If during this process you also make adjustments, TeleNav will probably have to contact its servers for another new route. Rerouting uses substantial network bandwidth, so it is advisable for you to try to stay on the route.

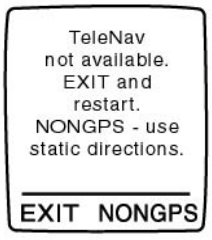
7. Error Conditions

Unable to reach server

If you drive into an area where there is intermittent or no ability to connect to the Nextel wireless network (usually indicated by the pulsing green light on the phone becoming red continuously), or there is a problem within the wire line network between Nextel wireless gateways and the TeleNav servers, and this problem has persisted for 30 seconds or more, you will get a message stating, "Unable to reach server". The TeleNav application on your phone will attempt to reconnect within 7 seconds. If this problem persists, you should switch to NONGPS mode, and pace the driving directions yourself using the Navigation Key left and right rocking motion.

TeleNav not available

If you get an advisory message that TeleNav is not available, you should EXIT the application, check the cable from the TeleNav GPS receiver to the phone, and then restart the TeleNav application. If the problem recurs, it may be due to a temporary server outage.



- Figure 35: TeleNav server outage advisory message

8. Exiting TeleNav

If at anytime you wish to exit TeleNav, look for the EXIT soft key, and press it. If the EXIT soft key is not present on the displayed screen, press the center MENU soft key. TeleNav will display a list of contextually available options. You can use the up/down scroll keys to highlight EXIT, and then press the right soft key. It takes several seconds for the application to exit and an animated screen will display depicting progress.

9. The TeleNav Web Site

Personal Information

You should visit the TeleNav website whenever you change your e-mail address so that TeleNav will be able to send service bulletins to you. You can also use the Web site to provide or update the addresses you wish to have defined as myHome and myWork addresses.

Preplanning

The TeleNav website is also useful for quickly planning those destinations you will need to visit during your day. First, enter your account number and PIN, and click SUBMIT. Then, click the Preplan My Trip link on the left. Simply key in the address, and it will be available in the Stops Created list the next time you launch TeleNav on your Java phone.

Customer Service

If you need to reach customer service, you can use the Contact Us link on the right side of the web page after signing in.

If you need to migrate your TeleNav account to a different Java phone, please call customer service at 408-404-7447. For security reasons, you cannot perform this change without assistance.

10. FAQ's

How do I increase or decrease the voice prompt volume and control the backlighting?

The best way to control the volume is by creating a new "phone style". A "phone style" defines the phones behavior in various scenarios. You can control the ring type, backlight illumination, display font size, voice volume, etc.

To change the voice prompt volume, follow these instructions:

1. Click **MENU**
2. Highlight and SELECT **Styles**
3. SELECT **[New Style]**

4. Give it the name TELENAV

5. Highlight and SELECT **Voice Volume**

6. Highlight **Speaker Vol** and click CHNGE

7. Using the Oval navigation key (between the make call and end buttons), change the volume to the desired level. We recommend a setting of 3.

8. Click **OK**

9. Click **BACK**

10. Highlight **Backlight** and click CHNGE

11. Scroll down to **Continuous** and click SELECT

12. Click **DONE**

Now both your voice prompt volume and backlighting are set. You can now switch to and from the "TeleNav style setting" by clicking then **MENU** Key and then **Styles**.

IMPORTANT: Remember to switch to your default style from TeleNav when you're done using TeleNav. Otherwise because of backlighting your battery may run out quickly.

Why do I need the Nextel packet data service?

The Total Connect, PacketStream or PowerApps plans allow you to access nationwide maps from the TeleNav server for accurate turn-by-turn directions, using the data communication features of your Java phone. This is different than your cellular airtime. It's necessary to have this option enabled in order for your phone to communicate with TeleNav's servers.

How long after I apply for the Nextel packet data service until I can use my TeleNav system?

Activation time from Nextel will vary depending on their processing workload. It's best to consult with the Nextel Customer Service agent about the activation period when applying for the service.

How much packet data have I used?

Your Nextel phone tracks this usage. Press MENU, and then scroll down to MORE. After selecting MORE, or if you do not find MORE, select CALL TIMERS. Then, select KBYTES RESET. The next display will show you approximately how many kilobytes you have used. Divide this number by 1000 to convert it to megabytes, and compare this with your Total Connect, PowerApps or PacketStream plan limit. When you are finished looking, press DONE. If you want your usage report to correlate with your Nextel bill, press RESET once monthly on the day Nextel closes your billing cycle.

Does TeleNav use up my voice plan minutes?

TeleNav uses packet data to provide the navigation function. Using packet data does not use any of your voice minutes. However, calling the Voice Address Input System does use about 1 minute per address entered.

How accurate is the GPS?

GPS accuracy can range from 20m to 100m, however most of the time the GPS is accurate to less than 50 meters. Our external GPS receiver also uses WAAS technology to further reduce the error.

What is ideal GPS environment?

The GPS requires an open, clear view of the sky. Buildings, covered parking areas, tunnels and dense foliage can cause the GPS receiver to either be unable to locate itself (fix) or have extended initialization time (start-up fix).

If you are parked in a covered parking lot or near a tall building, it is recommended that you move away till you have a clear view of the sky and then begin to use the TeleNav service.

You may need to give the GPS a few minutes to find its location.

How do I know that the GPS has a signal?

The TeleNav application on your phone will alert you if the GPS does not have a valid signal. If this happens, drive to an area where there is a clear view of the sky so the GPS can find itself.

Why does the GPS not work near buildings and other tall objects?

The GPS uses satellite signals from space to find out where it is. Therefore it needs a clear view of the sky. Tall buildings and other objects that block the receiver's view to the sky make it infeasible to determine your location. Sometimes the satellites are not overhead but near the horizon; in these cases the GPS must have a clear view of the horizon.

How do I enter my destination?

Your destination can be entered in three ways. The first way is to call 877-886-9762 or 408-523-1429 and "dictate" your destination address to the Voice Address Input System. Then you launch the TeleNav application on your Java phone and this address automatically shows up in the recent destinations list.

The second way to enter your destination is to type it in using the keypad. Details are provided above.

The third way is to go to www.telenav.com, log in, and then enter your destination address, or multiple destination addresses (up to 10 since this is all the phone can display at once).

Why do I have to call in a phone number to enter a destination?

Typing on a small keyboard can be tedious and so TeleNav provides you an easy way to enter the address you're going to. All you have to do is speak in your address and then TeleNav will guide you to it.

What are Static directions?

When the GPS is not available, TeleNav will give you "Static Directions" that you can navigate through by using the soft keys on your phone. Unlike GPS-based directions, with static directions you have to provide the origin address yourself, and advance the instructions as you complete the driving steps by pressing the right side of the Navigation key on your Nextel phone. You can also press the left side of the Navigation key to see the previous step.

Also if you get lost you will have to exit and re-launch TeleNav to get new instructions from your current location.

Why can't I receive calls when using TeleNav?

The TeleNav application on your phone needs to constantly "talks" to the TeleNav server that contains the map and other necessary information. Therefore, TeleNav predominantly consumes the available communications resources. REMEMBER you are not charged for AIRTIME while using the service. You are only charged for data usage.

11. Customer Support

Send an e-mail with your questions or comments to the appropriate company's Customer Service Department, or enter a comment through the website. We monitor your e-mails and will promptly reply to your inquiries.

TeleNav Inc.
2975 San Ysidro Way
Santa Clara, CA 95051
T: 408.245.3800
F: 408.245.0238
www.telenav.com

Technical Support
T: 88-TeleNav-4 (toll free)
telenav.nextel@TeleNav.com

RMA
If you need to exchange your TeleNav GPS Kit, please use the technical support contact points listed above to request a Return Material Authorization (RMA). Do not ship the GPS Kit to the above address.

12. TeleNav Services Warranty

The content and Java application services provided by TeleNav is provided “as is” and “as available” without warranties of any kind, either expressed or implied, including but not limited to any warranties of merchantability or fitness for particular use, or non-infringement. You acknowledge that your use of the TeleNav service is at your sole risk and you agree that the service and the information provided are without warranty of any kind by TeleNav.

TeleNav does not warrant the availability, accuracy, completeness, currentness or reliability of the services available from TeleNav, or the service itself, unavailability, errors, omissions or inaccurate data may result from unreliable data, due to equipment failure or other technical problems beyond the control of TeleNav, and TeleNav does not warrant the services in any respect due to such circumstances beyond its control.

Although certain information provided to you by TeleNav may be obtained or compiled from sources TeleNav believes to be reliable, TeleNav cannot and does not guarantee the accuracy, validity, kindness or completeness of any information made available to you for any particular purpose.
Under no circumstances, including negligence, will TeleNav or any of its affiliates, directors, officers or employees, or any third party be liable for any direct, indirect, incidental, special or consequential damages that results from your use or your inability to use the services. You acknowledge that this limitation applies to all content information or other services available from TeleNav, and whether or not TeleNav has notice of the possibility of such damages, and whether or not to circumstances giving rise to such damages may have been within the control of TeleNav.

Some states do not allow the exclusion of certain warranties, so some of the above exclusions may not apply to you. In those states, liability is limited to the fullest extent allowed by law

By using the service, you agree to indemnify TeleNav and its parents, subsidiaries, affiliates, officers and employees and hold them harmless from any and all claims and expenses, including reasonable attorney’s fees, asserted third party due to, or arising out of your use of the service and the site.

© TELENAV 2003-5